

Domenico Palombo

Curriculum vitae

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1. General informations

1.1 Personal Data

- ◆ Place of birth: Termoli (CB), 09/10/1950
- ◆ Citizenship: Italian
- ◆ Current position Full Professor of Vascular Surgery (MED/22)
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1.2 Bibliometrical Data

Publication on peer-reviewed journals: 84
H-C index: 14

Scopus H index:14
Citations: 1016

1.3 Academic position

- ◆ From 2005 – October 2014: **Associate Professor** of Vascular Surgery (MED/22), School of Medical and Pharmaceutical Sciences, Department of Integrated Diagnostic and Surgical Sciences (DISC), Genoa University
- ◆ From October 2014: Full Professor of Vascular Surgery (MED/22), School of Medical and Pharmaceutical Sciences, Department of Integrated Diagnostic and Surgical Sciences (DISC), Genoa University

1.4 Hospital career

- ◆ From 1989 - today **Chief** of Vascular and Endovascular Surgery Unit
- ◆ From September 2003 – today **Chief of** Vascular and Endovascular Surgery Unit at Azienda Ospedaliera Universitaria IRCCS San Martino – IST Istituto Nazionale per la Ricerca sul Cancro, Genoa, Italy
- ◆ From 2005 to 2010 – **Chief of Integrated Care Department of Surgery** at Azienda Ospedaliera Universitaria San Martino, Genoa, Italy

- ◆ From June 2012 – today **Chief of Integrated Care Department of Surgery** at IRCCS Azienda Ospedaliera Universitaria San Martino – IST Istituto Nazionale per la Ricerca sul Cancro, Genoa, Italy

1.5 Qualifications

- ◆ **High School Degree - Classical Studies in 1968**
- ◆ **Medical Degree** July 1974, with top marks and honors, at the Sacred Heart Catholic University of Rome, with a thesis of Experimental Vascular Surgery
- ◆ **Licensed to Medicine, in February 1975, at the Sacred Heart Catholic University of Rome**
- ◆ **Specialization in Vascular Surgery, July 1977, cum laude, from the Catholic University of the Sacred Heart in Rome**
- ◆ **In 1983** Specialization in General Surgery, cum laude, from the University of Turin
- ◆ **In 1983** Graduated from “Collège Français de Chirurgie Vasculaire”
- ◆ **Declared eligible for the role of Chief of General Surgery and Chief of Vascular Surgery in 1983**
- ◆ **Graduated in 2002** from European Board of Surgery Qualification in Vascular Surgery

1.6 Training abroad

- ◆ Stage, January 1977, at Hopital Cardio-Vasculaire de Lion (Cardiac Surgery Unit, Prof. P. Marion)
- ◆ Stage, September-October 1978, at Hopital Salpêtrière de Paris – Vascular Surgery Unit, Prof. J. Natali
- ◆ Research fellow, for three months in 1979, funded by the French foreign office, (Hôpital de La Salpêtrière – Paris), Vascular Surgery Unit, Prof. J. Natali
- ◆ Résident Etranger des Hôpitaux Salpêtrière de Paris, October 1981 - September 1982, Vascular Surgery Unit, Prof. J. Natali
- ◆ Stage, September 1982, Montpellier, l'Unité de Chirurgie Thoracique et Cardio-Vasculaire - Prof. A. Thevenet
- ◆ Stage, May 1984, London, St. Mary Hospital Medical School, Cardiovascular Unit - Prof. A. Nicolaides
- ◆ Stage, September 1984, New York, Vascular Surgery Unit, Englewood Hospital (N.I.) - Prof. H. Dardik
- ◆ Stage, September 1984, Houston, Texas Heart Institute, St. Luke's Episcopal Hospital - Prof. D. Cooley
- ◆ Stage, May 1985, London, Surgical Vascular Unit, St. Bartholemew's Hospital - Prof. J.S.P. Lumley

- ◆ Stage, November 1985, Paris, Hopital Salpêtrière de Paris – Vascular Surgery Unit, Prof. J. Natali
- ◆ Stage, September 1986, Sheffield, Angio-radiology Unit, Prof. D. Cumberland
- ◆ Stage, June 1988, Glasgow, Prof. J. Pollock
- ◆ Stage, November 1989; May 1998; January 1999, Paris, Vascular Surgery Unit - Prof. E. Kieffer
- ◆ Stage, January – July 1994; Cardiovascular Surgery Unit, CHU Nord de St. Etienne, Prof. X. Barral

1.7 Clinical Activities

- In 1978: appointed Consultant in Vascular Surgery at Regional Hospital of Aosta, entitled to perform as outpatient specialist.
- In 1979: Fellow of the French Foreign Ministry at the Unit of Vascular Surgery. directed by Prof. J. Natali, 'Hôpitaux de Paris Salpêtrière.
- In 1979: appointed Assistant of General Surgery at the Surgical Division of the Regional Hospital of Aosta, directed by Prof. E. Spaggiardi.
- In 1980: nomination to "Résident Etranger des Hôpitaux de Paris", at the Unit of Vascular Surgery of Prof. J. Natali, Salpetriere Hôpitaux de Paris. The assignment lasted until the end of 1982, and included surgical activity and taking part in a program of experimental research of new prosthetic materials in experimental animal models.
- In October 1982: appointed Independent Consultant in Vascular Surgery at the Regional Hospital in Aosta, winning the contest for residency in December 1983.
- In 1984: appointed, with the title of Assistant chief, at the Departmental Unit of Vascular Surgery and Angiology of the Regional Hospital of Aosta.
- In January 1989: appointed Chief of Vascular Surgery Unit at the Regional Hospital in Aosta.
- From January 1989: established and organized the Laboratory of Vascular Diagnostics, with photoplethysmograph, continuous wave Doppler with analog spectrum analyzer, Doppler ultrasound, transcranial Doppler, Brain Imager for brain mapping, connected to the management of hospitalized patients and outpatients.
- In 1990: creation of a Laboratory of Vascular Biology, operative in basic research on the subject of "Atheromatous plaque, growth factors and metalloproteinases".
- In January 1997: appointed Head of the Department of Vascular Surgery at Hospital Mauritian Umberto I in Turin, organizing Day Hospital and ultrasound diagnostic services.
- In 1998: creation of a service of Vascular Surgery, with surgical, outpatient and diagnostic ultrasound activities, at the Hospital Mauritian in Lanzo Torinese and Valenza networked with headquarters in Turin.
- In January 1998: appointed consultant to start a unit of Vascular Surgery at the ASL of Ivrea (maintained the function up to 2000).

- In April 1998: appointed Head of the Department of Heart and Vascular Disease at the Mauritian Hospital of Turin.
- In 2003: appointed Head of the Vascular and Endovascular Surgery Unit at the University Hospital San Martino of Genoa.
- With resolution dated 24.12.2003: appointed Consultant in Matter of Vascular Surgery at the Hospital of the Valle d'Aosta, with the task of overseeing the activities of Vascular Surgery Unit of the Hospital Regional of Valle d'Aosta, by agreement between the Hospital San Martino di Genova and the Local Health Authority of Aosta valid until December 2005.
- In 2005: reached the qualification of Associate Professor of Vascular Surgery at the University of Genoa (with leave period from 30/12/2005 to 30/06/2008).
- Since 2008: confirmed Head of Vascular and Endovascular Surgery Unit (merged between University and Hospital wards) of the University Hospital San Martino.
- Since 2009: appointed consultant for Vascular Surgery at the Istituto Giannina Gaslini. by agreement between the University Hospital "San Martino" and the Istituto Giannina Gaslini in Genoa, starting from 1.12.2009 and ending on 31.12 .2012.
- From 2005 to 2010: Head of the Department of Integrated Healthcare in Surgery at the University Hospital San Martino di Genova.
- From June 2012 to date has been the Director of the Department of Integrated Healthcare in Surgery at the University Hospital IRCCS San Martino - IST National Institute for Cancer Research.
- From January 2013 to February 2014 Head of Kidney transplantation Unit of 'IRCCS University Hospital San Martino - IST National Institute for Cancer Research.

2. Activities of organization and coordination

2.1 Research groups

Since 2005, as Associate Professor at the University of Genoa, he is the coordinator of a research group called Clinical and Experimental Vascular Biology and Surgery and head of the Laboratory of Clinical and Experimental Vascular Biology (Department of Integrate Surgical Sciences (DISC). The interdisciplinary team includes PhD students and trainees with different backgrounds, biologists, engineers, pharmacists and vascular surgeons. Detailed below are the collaborations and related research projects coordinated by Domenico Palombo:

- ◆ Cooperation with the Unit of Cardiology, Department of Internal Medicine and Medical Specialties (DIMI) of the University of Genoa for the realization of a research project on the evaluation of the inflammatory state in patients with abdominal aortic aneurysm.
- ◆ Cooperation with the Unit of Medical Clinic 1 of the Department of Internal Medicine and Medical Specialties (DIMI) of the University of Genoa and with the Division of Cardiology, Foundation for Medical Researches, Department of Medical Specialties, University of Geneva - Switzerland for the realization of a research project on the inflammatory state, both local (carotid atheromatous plaque) and systemic, in patients with symptomatic and asymptomatic carotid stenosis.

- ◆ Cooperation with the Unit of Nuclear Medicine, Department of Health Sciences (DISSAL) conducting research projects focused on preoperative imaging of abdominal aortic aneurysms.
- ◆ Cooperation with the Department of Civil, Chemical and Environmental Engineering, (DICCA) of the Polytechnic School of the University of Genoa for the realization of a research project on the study of in vivo flow fields in abdominal aortic aneurysms, in order to identify the possible site of rupture, and in the creation of a research project for the study of the stiffness of the aortic wall after endovascular treatment in patients with abdominal aortic aneurysm.
- ◆ Cooperation with the Department of Civil, Chemical and Environmental Engineering, (DICCA) of the Polytechnic School of the University of Genoa in the realization of a research project "Evaluation of the effects of natural antioxidant compounds acting as vaso-protective new strategy for the treatment and prevention of vascular diseases".
- ◆ Cooperation with the Unit of Medical Oncology at University Hospital IRCCS San Martino - IST National Institute for Cancer Research, in the realization of a research project "Evaluation of carotid myointimal thickness and aortic diameter in postmenopausal women, with physiological hormonal situation, and with total estrogenic block from treatment with aromatase inhibitors for breast cancer".
- ◆ Cooperation with the Clinic of Internal Medicine - Immunological Disease, Department of Internal Medicine and Medical Specialties (DIMI), and with the Dermatology Clinic of the Department of Health Sciences (DISSAL) of the University of Genoa, for the realization of a research project "Evaluation of myointimal carotid thickness in patients with psoriasis and psoriatic arthritis. Comparison between two populations: patients treated with conventional therapy and patients treated with TNF-alpha".
- ◆ Cooperation with the Department of Mechanical and Aerospace of the *Politecnico di Torino* and the Department of Health Sciences, University of Piemonte Orientale "Amedeo Avogadro", Novara, for the realization of a research project "Study in vitro and in vivo for the creation of biodegradable vascular bio-prosthesis with pro-endothelial and anti-calcification activities".
- ◆ Cooperation with the Laboratory of Oncology of IRCCS Gaslini Hospital in Genoa for the realization of a research project "Telomere Length and Oxidative Stress in vascular diseases".
- ◆ Cooperation with Esaote for the realization of a research project "Abdominal Aortic Aneurysms (AAA): multidisciplinary study on the possible risk and the site of rupture, fluid dynamics, mechanical and histopathological aspects".
- ◆ Founder of the Interdepartmental Centre "RESEARCH CENTER OF ENGINEERING IN VASCULAR BIOLOGICALLY INSPIRED LONGEVITY AND MEDICINE (BELONG)" for conducting research in science, both medical and engineering, in particular on issues related to the increase in shelf-life and bioavailability of bioactive molecules through techniques of micro- and nano-encapsulation; development of engineered biomaterials; clinical and biological characterization of the molecular processes underlying the onset of vascular diseases; biological evaluation of in vitro and in vivo models of bioactive compounds with a protective action in the context of vascular lesions; research activities in the field of vascular biology, both experimental and clinical.

- ◆ Cooperation with the Massachusetts Institute of Technology, Harvard-MIT Health Sciences & Technology, Cambridge, MA, USA for the realization of a research project designed to produce scaffolds with synthetic and natural biodegradable and bio-absorbable polymers, for applications in vascular surgery (grafts). In order to reduce the inflammatory effect of these implants, scaffolds were enriched with antioxidant compounds, respectively micro and nano-encapsulated.
- ◆ Cooperation with the 'Institut Agricole Régional du Val d' Aoste' for the realization of a research project "Nutraceuticals in Valle d'Aosta-NUTRALP. Longevity in a sip of apple - The grapewine for Life", aimed at the extraction and characterization of polyphenols from different varieties of apples and grapes and evaluation of their effects on endothelial dysfunction.
- ◆ Cooperation with the University of Piemonte Orientale "Amedeo Avogadro" for the realization of a research project "Nanotechnologies for differentiate programs bone development in vessel wall, for the prevention and treatment of diseases associated with ectopic calcification in blood" winner PRIN 2012.
- ◆ Cooperation with Cardio-Oncology clinic of IRCCS San Martino University Hospital IST for the realization of a research project "Prospective study, in vivo and in vitro, to assess the incidence of cardiovascular events in patients with myeloid leukemia in chronic phase treated with Nilotinib ".
- ◆ Cooperation with the U.O. of Medical Genetics, Department of Neuroscience, rehabilitation, ophthalmology, genetics and maternal and perinatal science (DINOEMI) of the University of Genoa, for the realization of a research project "Prospective study, in vivo and in vitro, for the evaluation of the role of miRNA markers as predictors of cardiovascular disease".
- ◆ Cooperation with the University of Salerno for the realization of a research project "Production of biocompatible scaffolds using supercritical fluids".

2.2 International Scientific Cooperations

- ◆ Cooperation with the Massachusetts Institute of Technology, Harvard-MIT Health Sciences & Technology, Cambridge, MA, USA.
- ◆ Cooperation with the Vascular Surgery Clinic directed by Prof. L. Davidovich, of Dedinje Cardiovascular Institute, School of Medicine, Belgrade University, Belgrade, Republic of Serbia.
- ◆ Cooperation with the Vascular Surgery Department headed by Prof. A. Giannoukas, University Hospital of Larissa, University of Thessaly, Medical School, Larissa Greece.
- ◆ Cooperation with the Vascular Surgery Department headed by Prof. V. Treska, the Charles University in Prague, School of Medicine in Pilsen, University Hospital in Pilsen, Czech Republic.
- ◆ Participated in the International Registry for Penetrating Aortic Ulcer in collaboration with the Vascular Surgery Clinic directed by Prof. L. Davidovich of Dedinje

Cardiovascular Institute, School of Medicine, Belgrade University, Belgrade, Republic of Serbia.

- ◆ Representative of the Italian Vascunet Committee at the European Society for Vascular Surgery (ESVS).
- ◆ Examiner for the European Board of Vascular Surgery.
- ◆ Member of the European Vascular and Endovascular Monitor ("EVEM Panel") for monitoring the results of vascular and endovascular surgery in Europe.

2.3 Department of Surgery

- ◆ March 2010 – July 2012: appointed Head of Communications, Public Relations and Contracts and at the Department of Integrated Diagnostics and Surgical Sciences (DISC) of the University of Genoa.

2.4 Inter-departmental Centres

- ◆ 2013 - today: President of “Interdepartmental Centre RESEARCH CENTRE OF BIOLOGICALLY INSPIRED ENGINEERING IN VASCULAR MEDICINE AND LONGEVITY” (BELONG) between Department of Integrated Surgical and Diagnostic Sciences (School of Medical and Pharmaceutical Sciences) and Department of Civil, Chemical and Environmental Engineering (Polytechnic School, University of Genoa).

2.5 School of Medical and Pharmaceutical Sciences and University

- Member of the Scientific Commission of the Simulation Center of the School of Medical and Pharmaceutical Sciences, University of Genoa.
- Member of the Committee for Internationalization of the School of Medical and Pharmaceutical Sciences, University of Genoa.
- Member of the Board of the Center for Medical Education of the School of Medical and Pharmaceutical Sciences, University of Genoa.
- Teacher referent for the Erasmus program of the School of Medical and Pharmaceutical Sciences, University of Genoa.
- Officer of the University for the coordination of the exhibition "500 Years of Medical Teaching in Genoa".
- He has been commissioned to design and implement the Booklet of presentation of the Faculty of Medicine of the University of Genoa.
- Proposed and participated in the conferral of an honorary degree in Medicine to Professor Juan Carlos Parodi, Professor of Surgery of the University of Miami, Florida, on November 23, 2012 at the University of Genoa.

- Member of the Board of the School of Medical and Pharmaceutical Sciences for the years 2013-2015.

2.6 PhD courses teaching and coordination activity

In 2009 he has proposed and is in charge of the doctorate "Experimental and Clinical Biology and Vascular Surgery" relating to the Doctorate in Biotechnology of the Graduate School for Experimental, Molecular and Clinical Biology and Medicine (XXV-XXVI-XXVIII cycle) at the Department of experimental Medicine (DIMES) of the University of Genoa.

- 2009 - present: Member of the Academic Board of the School of PhD in Experimental, Molecular and Clinical Biology and Medicine.
- In 2009 he has proposed and is responsible for PhD course "Experimental and Clinical Biology and Vascular Surgery" relating to the Doctorate in Biotechnology of the Graduate School for Experimental, Molecular and Clinical Biology and Medicine (XXV cycle) at the Department of experimental Medicine, in joint supervision with University of Thessaly, Medical School, Larissa Greece.
- From 2010 he holds the position of Tutor for a PhD in Vascular Surgery at the University of Thessaly, Medical School, Larissa Greece.
- March 2013: President of the Board for the final exam of PhD "Experimental and Clinical Biology and Vascular Surgery" relating to the Doctorate in Biotechnology of the Graduate School for Experimental, Molecular and Clinical Biology and Medicine (XXV cycle) at the Department of experimental Medicine (DIMES) of the University of Genoa.
- From 2013: member of the School Board of PhD "Biotechnology in Translational Medicine" at the Department of Experimental Medicine, University of Genoa.

2.7 Research grants

- In 2009 he proposed the Research Fellowship in Vascular Surgery, Department of Integrated Diagnostics and Surgical Sciences (DISC) of the University of Genoa.
- Scientific Responsible 2009-2011, of the research scientific sector MED/22 "Study on multidisciplinary abdominal aortic aneurysms: biological, imaging and experimental" at the Department of Integrated Diagnostics and Surgical Sciences (DISC) University of Genoa.
- Scientific Responsible, from 2011, of the research scientific sector MED/22 "Endothelial dysfunction and inflammatory response in abdominal aortic aneurysm: clinical, biological and experimental aspects" at the Department of Integrated Diagnostics and Surgical Sciences (DISC) of the University of Genoa.
- Scientific Responsible, from December 2012, of the research scientific sector MED/22 "Effects of TNF on endothelial function and identification for antioxidant compounds acting as vaso-protective".
- Scientific Responsible, from February 2013, for two Research Grants /scientific sector MED / 22 entitled "Abdominal Aortic Aneurysms (AAA): multidisciplinary study on the possible risk and place of rupture , fluid dynamics aspects, mechanical and histopathological" at the Department of Integrated Diagnostics and Surgical Sciences (DISC) of the University of Genoa, funded by Regione Liguria on PO CRO ESF 2007/13 IV ,on public notice DGR N.1283 2011.

2.8 Boards of Examination

- 2012: Member of the Board for the selection procedure for n. 1 post of Assistant Professor for fixed-time at the University of Genoa, Department of Integrated Diagnostics and Surgical Sciences (DISC) for disciplinary - scientific sector MED/22 Vascular Surgery - DR n 72 .of 26/01/2011.
- 2009-2014 Member of the Board of the evaluation procedure for the awarding for Research Grants related to the scientific sector MED/22 at the Department of Integrated Diagnostics and Surgical Sciences (DISC) of the University of Genoa.
- 2009-2010-2012 member of the Selection Committee for the entrance exams to the "Biology and Experimental and Clinical Vascular Surgery" relating to the PhD in Biotechnology of the Graduate School for Experimental, Molecular and Clinical Biology and Medicine, (XXV-XXVI- XXVIII cycle) at the Department of Experimental Medicine (DIMES) of the University of Genoa.

2.9 Laboratory of Vascular Biology

- Scientific Responsible, since 2009, of the Laboratory of Vascular Biology, Clinical and Experimental, Department of Integrated Diagnostics and Surgical Sciences (DISC).

2.10 Vascular Biobank

- ◆ Scientific Coordinator, since 2010, of the "Vascular Bio-Bank" (Vascular Tissue Biobank for research purposes), part of "Genoa Tissue Bank" at the Department of Integrated Diagnostics and Surgical Sciences (DISC) University of Genoa.

2.11 Academic Journals

- ◆ Member of Editorial Board of the Journal "Vascular Medicine" Ed. Arnold – London.
- ◆ Member of Editorial Board of the Journal "The Journal of Cardiovascular Surgery" Ed. Minerva Medica – Torino.
- ◆ Member of Editorial Board of the Journal "Italian Journal of Vascular and Endovascular Surgery" Ed. Minerva Medica – Torino.

2.12 Invited lectures

- In 1991: Keynote lecture at the School of Specialization in Vascular Surgery, University of Milan, directed by Prof. Agrifoglio, on "Pre- and intra-operative Monitoring in Carotid Surgery"
- In 2000: Keynote lecture at the School of Specialization in Vascular Surgery, University of Pavia, directed by Prof. Odero, on "Chemodectomas"
- In 2002: Keynote lecture at the Society of Angiology, Campobasso, on "Surgery for Carotid Stenosis"
- In 2003: Lecture at the School of Specialization in Vascular Surgery at the Catholic University of Rome on the theme "Thoraco-abdominal aneurysms"
- In 2004: Lecture during the Seminar "Vascular Diseases of the limbs in Athletes" sponsored by the School of Specialization in Sports Medicine at the Catholic University of Rome, on the theme "Thoracic outlet syndrome "

- In 2005: Lecture at the School of Specialization in Vascular Surgery at the Catholic University of Rome on the theme "Aortic Endoprosthesis and carotid stenting. Data from evidence and clinical practice "
- In 2005: Lecture in Naples during the Seminar "Aneurysms of peripheral arteries: the impact of modern technology" on "Arteriomegaly and aneurysms"
- In 2006: Special Conference at the 'University Hospital of Geneva on "Les procédures hybrides vasculaires"
- In 2009: Keynote lecture at the University of Belgrade, School of Medicine, Belgrade Republic of Serbia on "Penetrating Aortic Ulcer: Iceberg of Acute Aortic Syndrome" as Visiting Professor
- In 2009: Lecture at the Académie Nationale de Médecine de Paris on the theme "Penetrating aortic ulcer: a series of 15 cases with thoracic and thoraco-abdominal management"
- In 2010: Lecture at the University Hospital of Geneva on the theme "La Chirurgie carotidienne dans l'ère endovasculaire"
- In 2012: Keynote lecture at University of Prague, School of Medicine in Pilsen, Czech Republic, on "Carotid Endoarterectomy" as Visiting Professor
- In 2012: Keynote lecture at the University in Prague, School of Medicine in Pilsen, Czech Republic on "Eversion CEA: which is the technique of choice?" As Visiting Professor
- In 2012: Lecture at the 'Academy of Romanian Scientists in Bucharest on "Multilayer Stent philosophy: the future of endovascular treatment?"
- In April 2013: Lecture at the School of Specialization in Vascular Surgery, University San Raffaele in Milan, on "Multilayer stents, as a possible new perspective in endovascular treatment of aneurysms"
- In May 2013: Keynote lecture at the University of Thessaly, School of Medicine, Larissa Greece, on "Treatment of carotid lesions" as Visiting Professor
- In May 2013: Keynote lecture at the University of Thessaly, School of Medicine, Larissa Greece, on the theme "Thoraco-abdominal, abdominal aortic and peripheral aneurysms " as Visiting Professor
- In May 2013: Keynote lecture at the University of Thessaly, School of Medicine, Larissa Greece, on the theme "Multilayer Stent philosophy: the future of endovascular treatment? "As Visiting Professor
- In November 2013: Lecture in Naples as part of the conference "Abdominal aortic aneurysms" on "State of the art in aneurysmal pathology"
 - In November 2014: Keynote in Naples at the congress "Up-date in Carotid Disease.AND related problems in Vascular Surgery", with a lecture on the theme "Surgical techniques for treatment of carotid disease"
 - In October 2014 at the **XXIV Congress of the Mediterranean League of Angiology and Vascular Surgery (MLAVS)** Lectures "Vascular biology: atherosclerosis and molecular mechanism" and "Bioactive biomaterials, regenerative medicine and biodegradable scaffolds"

2.13 Scientific Societies

- ◆ From 2012 to 2014 President of European Society for Cardiovascular Surgery (ESCVS)
- ◆ From 2005 to 2006 President of Società Italiana di Chirurgia Vascolare ed Endovascolare (SICVE)
- ◆ Member of Société de Chirurgie Vasculaire de Langue Française (SCV)
- ◆ Honorary Member of Portuguese Society for Vascular Surgery
- ◆ Honorary Member of the Romanian Society of Cardiovascular Surgery

2.14 Incarichi Nazionali ed Internazionali

- In 1991 he founded and became secretary of the "Council of Vascular Surgeons in EEC" which will meet regularly until 1996 and that will give rise to the Division of Vascular Surgery of UEMS (Union Européenne Médecins Spécialistes)
- Secretary of the Coordination of Italian National Board of Hospital Vascular Surgery Chiefs
- From 1998 to 2000 he was appointed Chairman of the National Board of Hospital Vascular Surgery Chiefs
- In September 1999 he was appointed Assessor at the European Board of Vascular Surgery of UEMS (Union Européenne Médecins Spécialistes)
- In April 2000 he became Member of the Commission CME (Continuing Medical Education) of the European Division and Board of Vascular Surgery
- In 1998, with reappointment in November 2000, he was appointed representative in the Italian Division and Board of Vascular Surgery of UEMS (Union Européenne Médecins Spécialistes) by the Italian Society for Vascular and Endovascular Surgery ,and implemented a UEMS approved "perspective log book" for the training of surgical interns, participating in the European Board of Vascular Surgery
- In November 2000 he was elected Member of the Conseil d'Administration of SCV (Société de Chirurgie de Langue Française vasculaire)
- In 2001 he was appointed Member of the Editorial Board of the "Journal of Cardiovascular Surgery"
- In 2001 he was appointed by SICVE (Italian Society of Vascular and Endovascular Surgery) Head of a Working Group for the development and publication of the "Guidelines for obstructive aorto-iliac disease"
- In December 2001 he was appointed Coordinator of the Commission for Vascular Surgery of the Piedmont Region
- In 2001 he created and was appointed Director of the Commission for the National Register of Surgical Activity SICVE (SICVEREG)
- In 2001 he was appointed Head of the Research Consortium Vascular Biogest (Research Center for the study and the use of porcine bioprosthesis) - Turin
- In October 2002 he was elected Member of the Board of SICVE (Italian Society of Vascular and Endovascular Surgery)

In November 2002 he was appointed by the Piedmont Regional Component of the Regional Commission for investigating cases of failure of prosthetic heart valves produced by the company tri-Technologies, established by decree 336/2002 and subsequent amendments

- In 2002 chairman the Commission of the National College of Hospital Chiefs of Vascular Surgery that will process the minimum requirements necessary in the organization of a complex structure of Vascular Surgery and the requirements of the candidate for Director for complex structure
- In December 2002 he was appointed Vice President of SICVE (Italian Society of Vascular and Endovascular Surgery)
- In 2003 he was appointed Member of the 'Executive Board of the European Society for Cardiovascular Surgery
- In 2003 he was Founder and Project Coordinator for the Transnational Virtual Department of Vascular Surgery "Cardiovascular Transalp" approved and funded by the European INTERREG funds, which included the CHU of Nice, Grenoble, the Regional Hospital of Aosta and the Hospital Mauritian "Umberto I" of Turin
- In 2004 he was appointed Coordinator for Vascular Surgery of the European Society for Cardio-Vascular Surgery
- In 2004 he was appointed "Associate Editor" of the "Italian Journal of Vascular and Endovascular Surgery"
- In 2005 he was appointed Chairman of the Italian Society for Vascular and Endovascular Surgery (SICVE)
- In 2006 he was appointed "Associate Secretary" of the European Society for Cardio-Vascular Surgery
- In 2009 he was appointed "Reviewer" for Chinese Journal of Clinical Medicine
- Member and Representative of the Italian Committee Vascunet European Vascular Surgery - Data Base Report
- In 2010 he was appointed "President Elect" of the European Society of Cardiovascular Surgery (ESCVS)
- From July 2011 he was appointed Director of the International research office for ethics in medical technologies and operation choices of the european center for bioethics and quality of life- UNESCO Chair in Bioethics Unit
- From 2012 to 2014 President of the European Society of Cardiovascular Surgery (ESCVS)
- From July 2014 he was appointed Member of the International Forum of Teachers (IFT) of the UNESCO Chair in Bioethics

2.15 Honors

- In 1987 he was named Academic of the Roman Academy of Medical Sciences and Biological
- In 1989 he was awarded the Order of Knight of the Italian Republic

- In December 1996 he was elected Associate Member of the "Académie de Chirurgie" (National Academy of Surgery of France)
- In October 2001 he was awarded the title of Knight of the Order of Saints Maurice and Lazarus
- In June 2002 he obtained the license plate of the Sociedade Portuguesa de Angiology and Vascular Cirurgia for recognition of the work done in launching the integration project of Vascular Surgery at the European level
- In July 2005 he was awarded the degree of "Chevalier de l'Ordre de la Legion d'Honneur" de la République Française
- In 2009 he was appointed Membre Etranger de l'Académie Nationale de Médecine de Paris
- In 2011 he was appointed Member of the " Academy of Romanian Scientists "
- In 2011 he was appointed "Chevalier de l'autonomie du Val d'Aoste"

3. Clinical Activity

Surgeries from 1 April 1978 to 23 July 2014

Carotid surgeries: 2254

Abdominal aortic surgeries: 1280

Thoracic aortic surgeries: 136

Peripheral arteries surgeries: 1079

Thoracic outlet syndrome: 40

Chemodectomas: 17

Visceral and renal arteries surgeries: 31

Venous surgeries: 728

4. Teaching activities

4.1 Teaching

- ◆ Teacher, from 1976 to 1981 at the School of Professional Nurses Region Valle d'Aosta

- ◆ Director and Professor, 1989-1991, of the "Biennial Course for technician in Vascular Pathophysiology" Region of Valle d'Aosta
- ◆ Tutor, in 1997, at the fifth course "Techniques of reconstruction of the abdominal aorta," San Raffaele Hospital in Milan
- ◆ Professor from 1997 to 2003 at the School of Vascular Surgery, University of Siena
- ◆ Professor from 1997 to 2003 at the School of Vascular Surgery, University of Turin
- ◆ Tutor, in 1998, at the IX-X-XI Course "Techniques in Vascular Surgery", San Raffaele Hospital in Milan
- ◆ Adjunct Professor at the School of Vascular Surgery, University of Genoa, from 1998 to 2008
- ◆ Lecturer, in 2002, at the "Course in Nursing Critical Cardiovascular Patient" at the Faculty of Medicine of the University of Turin
- ◆ Professor of Vascular Surgery at the School of Medicine, University of Genoa, as an Associate Professor of Vascular Surgery (MED / 22) from the academic year 2008-2009
- ◆ Lecturer at the School in General Surgery I and II of the University of Genoa since 2008
- ◆ Lecturer at the School of Orthopedics, University of Genoa since 2008
- ◆ Lecturer at the School of Urology, University of Genoa since 2008
- ◆ Lecturer at the School of Anaesthesia and Intensive Care, University of Genoa since 2008
- ◆ Local coordinator since 2009 of the School of Vascular Surgery, University of Genoa, federated with the School of Vascular Surgery at the University of Turin
- ◆ Director and Professor at the School of Vascular Surgery, University of Genoa from 2009 to 2012
- ◆ Teacher, 2009-2011, of the Degree in Nursing at the University of Genoa, Chiavari and La Spezia
- ◆ Teacher, from 2012-today, Seminar "Antioxidants and vascular disease. Interdisciplinary role "within the course: "Processes and Equipment of Food Industry "of the Master of Science in Chemical Engineering
- ◆ Lecturer in 2014 the Update Course "Intensive care-associated infections (ICA): updates and epidemiological surveillance and control at the IRCCS AOU San Martino - IST, Genoa
- ◆ Lecturer in 2014 the Update Course "Screening of nutritional risk at admission: optimization of resources by reducing complications from hospital malnutrition " at the IRCCS AOU San Martino - IST, Genoa

4.2 Foreign Universities

- ◆ October 2009 Visiting Professor at University of Belgrade, School of Medicine, Belgrade Republic of Serbia

- ◆ June 2012 Visiting Professor at University of Prague, School of Medicine in Pilsen, Czech Republic
- ◆ May 2013 Visiting Professor at School of Medicine, University of Thessaly, Larissa Greece

4.3 Direction of training and update courses

- In May 2001 he organized and was Professor of the 1st Workshop on the theory and practice of carotid surgery, Turin
- In May 2002 he organized and was Professor of the 2nd Workshop on the theory and practice of carotid surgery, Turin
- In January 2003 he organized and was Professor of the 3rd Workshop on the theory and practice of carotid surgery, Turin
- In May 2003 he organized and was Professor of the 4th Workshop on the theory and practice of carotid surgery, Turin
- In September 2003 he organized and was Professor of the 5th Workshop on the theory and practice of carotid surgery, Turin
- In March 2004 he organized and was Professor of the 6th Workshop on the theory and practice of carotid surgery, Genoa
- In June 2004 he organized and was Professor of the 7th Workshop on the theory and practice of carotid surgery, Genoa
- In October 2004 he organized and was Professor of the 1st Workshop on the theory and practice of abdominal surgery
- In October 2005, he organized and was Professor of the 8th Workshop on the theory and practice of carotid surgery, Genoa
- In October 2005, he organized and was Professor of the 2nd Workshop on the theory and practice of abdominal surgery, Genoa
- In 2005, as President of SICVE, organized the 1st Course PEC (Project Endovascular carotid)
- In 2006, as President of SICVE, organized the 2nd Course PEC (Project Endovascular carotid)
- In October 2006 he organized and was Professor of the 9th Workshop on the theory and practice of carotid surgery, Genoa
- In January 2006 he organized a Conference on " Venous Cartography and current applications in technique CHIVA" by Prof. Claude Franceschi
- In November 2006, he organized the course Diagnostics Level 1 for General Practitioners
- In December 2006, he organized the course "Guidelines for measurement and the choice of endovascular aortic surgery" in cooperation with the firm GORE
- In October 2007 organized the course "distal revascularization: theoretical and practical experience in the operating room"
- In November 2007 he organized and was Professor of the 3rd Workshop on the theory and practice of abdominal surgery, Genoa
- In December 2007, he organized the Departmental Course on "The professional responsibility of those working in Health care"
- In May 2008 he organized the course on "distal revascularization: theoretical and practical experience in the operating room," Genoa
- In June 2008 he organized and was Professor of the 4th Workshop on the theory and practice of abdominal surgery, Genoa
- In October 2008 organized the course on "distal revascularization: theoretical and practical experience in the operating room," Genoa

- In June 2010 organized the Seminar "Absorbable Vascular Bioprosthesis", Genoa
- In March 2011 he organized and was Professor of the 1st Workshop "New technologies in the treatment of chronic venous insufficiency (CVI) of the lower limbs - Radiofrequency", Genoa
- In March 2011 he organized and was Professor of the 2nd Workshop "New technologies in the treatment of chronic venous insufficiency (CVI) of the lower limbs - Radiofrequency", Genoa
- In April 2011 he organized and was Professor of the 3rd Workshop "New technologies in the treatment of chronic venous insufficiency (CVI) of the lower limbs - Radiofrequency", Genoa
- In October 2011 organized the Seminar "Innovative Technologies in Surgery: Ethical principles in the reality of a complex organization" by Prof. Amnon Carmi
- In March 2012 he organized, he was Head of Scientific committee and Professor of Genoa Winter & Summer School of Vascular Surgery for Young Surgeons - Session Abdominal Aortic Aneurysms, Genoa
- In October 2012 organized the Departmental Seminar "The Medical care, the justice and the media: what about ethics?" Held by Prof. Amnon Carmi
- In January 2013 he organized and supervised the winter edition of the Winter & Summer School of the European Society of Cardiovascular Surgery on "How to write a scientific paper and how to write a successful presentation" in Courmayeur - Italy
- In April 2013 he organized, was Scientific Director and Professor of Genoa Winter & Summer School of Vascular Surgery for Young Surgeons - Session Peripheral Arteries Disease ", Genoa
- In December 2013 he organized and was Head of the Departmental Scientific Update Course "Fast Track in surgical disciplines: why and when, the history, the clinical indications, interaction and inter-disciplinarity", Genoa
- In March 2014 he organized the Departmental Seminar "The Vascular Surgery. The dawn of the Endovascular revolution " with guest speaker Professor Jean Natali, Genoa
- In March 2014 he organized the Interdepartmental Seminar "New therapeutic approaches in the management of the open abdomen", Genoa

4.4 Thesis Supervisor

Medical degree

◆ Supervisor of 9 Medical Degree thesis

Giuseppe Cafueri, "Lo screening dell'aneurisma dell'aorta addominale: Progetto S.A.Ge e prospettive applicative dell'analisi molecolare della lunghezza dei telomeri" Academic Year 2008-2009

Debora Musio, "Livelli ormonali ed attività metalloproteasica nell'aneurisma dell'aorta addominale in donne in menopausa: identificazione di una popolazione femminile a rischio" Academic Year 2009-2010

Maria Cecilia Perfumo, "Studio prospettico randomizzato di valutazione della restenosi in chirurgia carotidea. Tecniche a confronto" Academic Year 2009-2010

Matteo Ferraris, "Confronto tra tipi di endoprotesi aortiche nel trattamento di aneurismi dell'aorta addominale: risultati a breve termine" Academic Year 2010-2011

Fabio Ruggero, "Outcome cardiologico in pazienti sottoposti a trattamento ibrido mediante rivascolarizzazione dei tronchi sovraortici e posizionamento di endoprotesi per patologia dell'arco aortico" Academic Year 2010-2011

Marta Mari, “Studio prospettico sulla valutazione dello stress miocardio dopo il trattamento open o endovascolare negli aneurismi dell’aorta addominale” Academic Year 2011-2012

Federica Persi, “Management delle dissecazioni aortiche di tipo B durante il follow-up dopo trattamento endovascolare” Academic Year 2011-2012

Francesco Mongelli, “Lo stent multistrato nel trattamento degli aneurismi aortici e periferici: risultati e prospettive” Academic Year 2012-2013

Giorgio Mottola, “Ruolo della resolvina D1 nella regolazione del riarrangiamento citoscheletrico e della proliferazione delle cellule muscolari lisce vascolari umane” Academic Year 2012-2013

◆ Degree in Biotechnologies, Genoa University

Pier Francesco Ferrari, “Valutazione del contenuto e dell’attività biologica di composti fenolici in *Arthrospira (Spirulina) platensis*, cresciuta in condizioni di stress ossidativo” Academic Year 2012-2013

◆ Degree in Chemical and pharmaceutical technologies, Genoa University

Marta Bocchino, “Variazione della frazione fenolica in *Arthrospira platensis* sottoposta a stress ossidativo” Academic Year 2012-2013

Specialty Thesis

◆ 2008-2013 Supervisor of 9 Specialty thesis in Vascular and Endovascular Surgery

Federico Navaretta, “I tumori del Glomo carotideo” Academic Year 2008-2009

Nikolaos Rousas, “Considerazioni sull’associazione della Lunghezza dei telomeri in pazienti con aneurisma dell’aorta addominale” Academic Year 2008-2009

Andrea Chiama, “Il trattamento endovascolare dell’aneurisma aortico in urgenza” Academic Year 2009-2010

Maria Catena Principato, “Endoarterectomia carotidea e stentino della carotide: modello clinico di integrazione delle due metodiche” Academic Year 2009-2010

Alessandro Robaldo, “Endoarterectomia carotidea per eversione e reimpianto: esperienza di un singolo centro” Academic Year 2009-2010

Oxana Ganceriuc, “L’ulcera aortica penetrante: problemi diagnostici, terapeutici e prognostici” Academic Year 2010-2011

Bianca Pane, “Management delle dissecazioni aortiche di tipo B durante il follow up dopo trattamento endovascolare” Academic Year 2010-2011

Giovanni Spinella, “Lo stent multistrato a modulazione di flusso nel trattamento degli aneurismi aortici” Academic Year 2012-2013

M'hamed Dahmane, "Studio prospettico randomizzato di valutazione della restenosi in Chirurgia Carotidea Tecniche a confronto. Risultati preliminari." Academic Year 2012-2013

PhD Thesis

• Supervisor of a Ph.D. thesis " Experimental and Clinical Vascular Biology and Surgery" relating to the Doctorate in Biotechnology of the Graduate School for Experimental Molecular and Clinical Biology and Medicine, (XXV cycle) at the Department of Experimental Medicine (DIMES) of the University of Genoa

Giuseppe Cafueri, "Effect of oxidative stress on telomere shortening in endothelial cells and in smooth muscle cells of the abdominal aneurysms"
Academic Year 2012-2013

• Supervisor of a Ph.D. thesis "Biology and Experimental and Clinical Vascular Surgery" relating to the Doctorate in Biotechnology of the Graduate School for Experimental Biology and Medicine, Molecular and Clinical (XXV cycle) at the Department of Experimental Medicine (DIMES) of the University of Genoa in joint supervision with the School of Medicine, University of Thessaly, Larissa Greece

Nikolaos Rousas, "Positron emission computed tomography for the evaluation of abdominal aortic aneurysm and risk of rupture" Academic Year 2012-2013

4.5 Tutoring

- ◆ 12.05.2014 – 30.05.2014 **Tutor** for Dr Rustam Tulkinbayevich Muminov, Vascular Surgeon at Second clinic of Tashkent Medical Academy Department of surgical angioneurology, clinical and surgical activity at Vascular and endovascular surgery unit of IRCCS Azienda Ospedaliera Universitaria San Martino – IST, Genova

5. Research

Starting with the Medical degree thesis, in experimental field, Domenico Palombo has been involved in research activities in the field of vascular surgery and vascular diseases, participating in numerous national and international prospective randomized studies and developing an interest in vascular biology. This interest has materialized in 1990 with the creation of a Laboratory of Vascular Surgery with a dedicated biologist at the Regional Hospital of Valle d'Aosta. More recently, as an Associate Professor of Vascular Surgery, he was the creator and coordinator of numerous studies in clinical and Vascular Biology. In this regard has established and is currently scientific director of the Laboratory of Clinical and experimental Vascular Biology linked to the Department of Integrated Diagnostics and Surgical Sciences (DISC) of the University of Genoa. Currently the lines for basic research are represented by: the study of the mechanisms underlying endothelial dysfunction and identification of molecules with antioxidant and vasoprotective activities, and the building of biodegradable scaffolds. Regarding the clinical

research, the main research topics are represented by the study of the modulation of the inflammatory response in patients with carotid stenosis and abdominal aortic aneurysm. Studies are also made regarding fluid dynamics of abdominal and thoracic aortic aneurysms and related endovascular treatment .

5.1 Research projects:

5.1.1 Clinical research

The clinical research is focused primarily on two major vascular diseases, the abdominal aortic aneurysms and obstructive atherosclerotic carotid disease. . Detailed below are the main lines of research:

- "Prospective study, in vivo and in vitro, to assess the incidence of cardiovascular events in patients with chronic myeloid leukemia in chronic phase treated with Nilotinib"
- "Assessment of inflammation in patients with abdominal aortic aneurysm"
- "Evaluation of the inflammatory state, both local (carotid atheromatous plaque) and systemic in patients with symptomatic and asymptomatic carotid stenosis"
- "Preoperative imaging of abdominal aortic aneurysms"
- "In vivo study of the flow fields in abdominal aortic aneurysms in order to detect the possible site of rupture"
- "Study of the aortic wall stiffness after endovascular treatment in patients with abdominal aortic aneurysm"
- "Evaluation of the carotid myointimal thickness and aortic diameter in menopausal women with physiological hormonal situation and in women with total estrogen-blocking treatment with aromatase inhibitors for breast cancer "
- "Evaluation of myointimal carotid thickness in patients with psoriasis and Psoriatic arthritis . Comparison between two populations: patients treated with conventional therapy and patients treated with TNF-alpha "
- "Systolic left ventricular function studies after endovascular treatment of abdominal and thoracic aortic disease"
- "Telomere Length and Oxidative Stress in vascular diseases"
- "Matrix metalloproteinase activity as a biomarker of endoleaks after endovascular repair of infrarenal abdominal aortic aneurysm "
- "Carotid eversion endarterectomy: DeBakey technique versus Etheredge technique
- "Abdominal Aortic Aneurysms (AAA): multidisciplinary study on the possible risk and site of rupture, fluid dynamics, mechanical and histopathological aspects"
- "Project SAGE (Screening Abdominal aortic aneurysms Genoa)"
- "Protocol for carotid surgery without CT and angiography"
- "Study on cognitive outcome after carotid endarterectomy with or without shunt"

5.1.2 Basic research

Detailed below are the main lines of research in progress:

- "Nutraceuticals in Valle d'Aosta-NUTRALP. Longevity in a sip of apple - The grapevine for life "
- "Nanotechnology for differentiate the programs for bone development in the vascular wall for the prevention and treatment of pathologies associated with ectopic calcification in blood"
- "Evaluation of the effects of natural antioxidant compounds (apigenin and mixtures of polyphenols) : vasoprotective action for endothelial damage induced by TNF-alpha"
- "Evaluation of the role of resveratrol in the modulation of the inflammatory response in an animal model for abdominal aortic aneurysm"
- "In vitro and in vivo model creating biodegradable vascular bioprosthesis with endothelial activities "
- "Modulation of the inflammatory response in the course of surgically induced visceral ischemia in animal models by preanesthetic medication with troglitazone and 2,3,7,8- tetrachlorodibenzo-p-dioxin (TCDD)"
- "PASSAGE (Project for Arterial Substitute biodegradable and Seeding of Autologous cells Genoa) Prosthetics biodegradable engineered by " seeding "cellular" scaffolds
- "Prospective study, in vivo and in vitro, for the evaluation of the role of miRNAs as markers predictive of cardiovascular disease"

5.2 Research projects (funded):

- PASSAGE (Project for Arterial Substitute biodegradable and Seeding of Autologous cells Genoa) Prosthetics biodegradable engineered by "seeding" cell. Funded as Project CIPE - Liguria Region 2007/08 "Stem cells: cell-biomaterial systems for the generation of implantable"
- Abdominal Aorta Aneurysm Screening Genoa 2008 (SAGE), winner of the procurement operations research Liguria Regional Health Authority (ARS) 2008
- Study on multidisciplinary abdominal aortic aneurysms: biological, imaging and experimental funded by Fondazione San Paolo in 2010 (Practice Company S.Paolo 2010.0114)
- "Abdominal Aortic Aneurysms (AAA): multidisciplinary study on the possible risk and the site of rupture, fluid dynamic aspects, mechanical and histopathological" funded by the Region of Liguria on PO CRO ESF 2007/13 IV of which public notice DGR N.1283 / 2011
- "Vascular Disorders: mir149 role in endothelial dysfunction" Research projects funded by the University in 2012 (PRA 2012)
- 2014 - 2015 ERDF ESF Regional Competitiveness and Employment: Project Nutralp VDA (Nutraceuticals in Valle d'Aosta)

5.3 Research projects (spontaneous):

- "Systolic Left Ventricular Function Study after endovascular treatment of abdominal and thoracic aortic disease"
- A prospective, randomized, single-center "Carotid endarterectomy for subversion sec. DeBakey versus carotid endarterectomy for subversion sec. Etheredge: compared techniques "
- "Prospective study, in vivo and in vitro, for the evaluation of the role of miRNAs as markers predictive of cardiovascular disease"

- "Autologous freshly isolated bone marrow cell transplantation for the critical limb ischemia of peripheral vascular occlusive disease (PAOD)"
- "Matrix metalloproteinase activity as a biomarker of endoleaks after endovascular repair of infrarenal abdominal aortic aneurysm "

5.4 Participation in National and International trials

- ILAILL Study: Multicenter Phase III randomized, double-blind, placebo-controlled study to evaluate the effects of Iloprost on clinical outcome after surgical revascularization in patients with acute ischemia of the lower limbs
- Randomized, Multicenter Trial Gala - General anesthesia versus local anesthesia for carotid endarterectomy
- Studio "Spinal": prospective randomized controlled trial to evaluate the efficacy and safety of electrical stimulation of the spinal cord in the therapy critical lower limb ischemia: spinal cord stimulation therapy versus prostacyclin.
- "Asymptomatic Carotid Surgery Trial" - St. Mary's Hospital - London
- "ECST": European Carotid Surgery Trial
- "Register of Italian Society on the extracranial carotid disease RIDICE"
- Randomised prospective study: eversion carotid endarterectomy versus standard carotid endarterectomy (EVEREST)
- Multicenter STACI (Surgical Treatment of Acute Cerebral Ischemia - Prospective study on the urgent surgical treatment of vascular carotid stenosis)
- Studio "EUCLID" - Examining Use of ticagrelor In PAD: Phase IIIb, multicenter, randomized, double-blind, parallel group study to compare the effects of treatment with ticagrelor compared to clopidogrel on the risk of cardiovascular death, myocardial infarction and ischemic stroke in patients with peripheral artery disease

6. Evaluation and Reviewing activities

6.1 Ministry

- ◆ Member of the reviewer's board of MIUR (Ministry for University and Research)

6.2 Research Projects:

- ◆ Reviewer for the project "Randomized multicentre study for evaluating the efficacy and safety of venous angioplasty of the extracranial veins in the treatment of multiple sclerosis" BRAVE DREAMS (BRAIn Venous DRainage Exploited Against Multiple Sclerosis)-2011
- ◆ Reviewer for the project "Aneurysmatic disease of the thoracoabdominal aorta" (Num. 175008) supported by the Ministry of Education and Science of the Republic of Serbia - 2011

6.3 International Journals

- ◆ Reviewer for "Interactive Cardiovascular and Thoracic Surgery" Ed. Oxford Journals – Oxford

- ◆ Reviewer for “European Journal of Cardio – Thoracic Surgery” Ed. Oxford Journals – Oxford
- ◆ Reviewer for “Annals of Vascular Surgery” Ed. Elsevier Inc. Philadelphia, PA USA
- ◆ Reviewer for “Journal of Chinese Clinical Medicine” Ed. Hong Kong Medical Technologies China

7. Articles on peer reviewed journals

7.1 International Journals

1: Ghigliotti G, Barisione C, Garibaldi S, Fabbi P, Brunelli C, Spallarossa P, Altieri P, Rosa G, Spinella G, Palombo D, Arsenescu R, Arsenescu V. Adipose tissue immune response: novel triggers and consequences for chronic inflammatory conditions. *Inflammation*. 2014 Aug;37(4):1337-53.

2: Pane B, Spinella G, Signori A, Musio D, Perfumo MG, Lucertini G, Rousas N, Palombo D. Early and long-term outcomes after open or endovascular repair for abdominal aortic aneurysms in high-risk patients. *J Cardiovasc Surg (Torino)*. 2014 Apr;55(2):257-63.

3: Morbelli S, Ghigliotti G, Spinella G, Marini C, Bossert I, Cimmino MA, Pane B, Rousas N, Cittadini G, Massollo M, Camellino D, Riondato M, Palombo D, Barisione C, Sambuceti G. Systemic vascular inflammation in abdominal aortic aneurysm patients: a contrast-enhanced PET/CT study. *Q J Nucl Med Mol Imaging*. 2014 Mar 21.

4: Lenglet S, Quercioli A, Fabre M, Galan K, Pelli G, Nencioni A, Bauer I, Pende A, Python M, Bertolotto M, Spinella G, Pane B, Palombo D, Dallegri F, Mach F, Vuilleumier N, Montecucco F. Statin treatment is associated with reduction in serum levels of receptor activator of NF- κ B ligand and neutrophil activation in patients with severe carotid stenosis. *Mediators Inflamm*. 2014;2014:720987.

5: Tagliamacco A, Cioni M, Comoli P, Ramondetta M, Brambilla C, Trivelli A, Magnasco A, Biticchi R, Fontana I, Dulbecco P, Palombo D, Klersy C, Ghiggeri GM, Ginevri F, Cardillo M, Nocera A. DQ molecules are the principal stimulators of de novo donor-specific antibodies in nonsensitized pediatric recipients receiving a first kidney transplant. *Transpl Int*. 2014 Jul;27(7):667-73.

6: Palmieri D, Cafueri G, Mongelli F, Pezzolo A, Pistoia V, Palombo D. Telomere shortening and increased oxidative stress are restricted to venous tissue in patients with varicose veins: A merely local disease? *Vasc Med*. 2014 Feb 20;19(2):125-130.

7: Fraga-Silva RA, Savergnini SQ, Montecucco F, Nencioni A, Caffa I, Soncini D, Costa-Fraga FP, De Sousa FB, Sinisterra RD, Capettini LA, Lenglet S, Galan K, Pelli G, Bertolotto M, Pende A, Spinella G, Pane B, Dallegri F, Palombo D, Mach F, Stergiopoulos

- N, Santos RA, da Silva RF. Treatment with Angiotensin-(1-7) reduces inflammation in carotid atherosclerotic plaques. *Thromb Haemost.* 2014 Apr 1;111(4):736-47.
- 8: Scalone L, Cortesi PA, Spinella G, Pane B, Cesana G, Mantovani LG, Palombo D. Use of health-related quality-of-life measurements to estimate individuals' health on screening. *Acta Chir Belg.* 2013 Nov-Dec;113(6):406-14.
- 9: Palmieri D, Capponi S, Geroldi A, Mura M, Mandich P, Palombo D. TNF α induces the expression of genes associated with endothelial dysfunction through p38MAPK-mediated down-regulation of miR-149. *Biochem Biophys Res Commun.* 2014 Jan 3;443(1):246-51.
- 10: Pane B, Spinella G, Salcuni M, Palombo D. Stent-graft and multilayer stent for treatment of type II thoracoabdominal aortic aneurysm in a high-risk patient. *J Cardiovasc Surg (Torino).* 2013 Aug;54(4):505-9.
- 11: Giannoukas AD, Paraskevas KI, Koutsias S, Argyriou C, Saleptsis V, Palombo D. The Role of Oral Vitamin K Antagonists in the Outcome of Infrainguinal Bypass Procedures. *Angiology.* 2013 Sep 3.
- 12: Parodi A, Gandolfo C, Palombo D, Zannini L, Ghiggeri GM. Images in vascular medicine. A challenging case of renovascular hypertension. *Vasc Med.* 2013 Oct;18(5):318-9.
- 13: Musio D, Gazzola V, Cafueri G, Spinella G, Pane B, Palombo D. A retrospective study on short term results with straight graft vs. bifurcated graft in abdominal aortic aneurysms: a single center experience. *J Cardiovasc Surg (Torino).* 2013 May 29.
- 14: Bertoglio S, Rezzo R, Merlo FD, Solari N, Palombo D, Vassallo F, Beltramini S, DeMaria A. Pre-filled normal saline syringes to reduce totally implantable venous access device-associated bloodstream infection: a single institution pilot study. *J Hosp Infect.* 2013 May;84(1):85-8.
- 15: Vuilleumier N, Montecucco F, Spinella G, Pagano S, Bertolotto M, Pane B, Pende A, Galan K, Roux-Lombard P, Combescure C, Dallegri F, Mach F, Palombo D. Serum levels of anti-apolipoprotein A-1 auto-antibodies and myeloperoxidase as predictors of major adverse cardiovascular events after carotid endarterectomy. *Thromb Haemost.* 2013 Apr;109(4):706-15.
- 16: Palmieri D, Perego P, Palombo D. Estrogen receptor activation protects against TNF- α -induced endothelial dysfunction. *Angiology.* 2014 Jan;65(1):17-21.
- 17: Ghigliotti G, Barisione C, Garibaldi S, Brunelli C, Palmieri D, Spinella G, Pane B, Spallarossa P, Altieri P, Fabbi P, Sambuceti G, Palombo D. CD16(+) monocyte subsets are increased in large abdominal aortic aneurysms and are differentially related with circulating and cell-associated biochemical and inflammatory biomarkers. *Dis Markers.* 2013;34(2):131-42.

- 18: Palmieri D, Perego P, Palombo D. Apigenin inhibits the TNF α -induced expression of eNOS and MMP-9 via modulating Akt signalling through oestrogen receptor engagement. *Mol Cell Biochem.* 2012 Dec;371(1-2):129-36.
- 19: Lees T, Troëng T, Thomson IA, Menyhei G, Simo G, Beiles B, Jensen LP, Palombo D, Venermo M, Mitchell D, Halbakken E, Wigger P, Heller G, Björck M. International variations in infrainguinal bypass surgery - a VASCUNET report. *Eur J Vasc Endovasc Surg.* 2012 Aug;44(2):185-92.
- 20: Vikatmaa P, Mitchell D, Jensen LP, Beiles B, Björck M, Halbakken E, Lees T, Menyhei G, Palombo D, Troëng T, Wigger P, Venermo M. Variation in clinical practice in carotid surgery in nine countries 2005-2010. Lessons from VASCUNET and recommendations for the future of national clinical audit. *Eur J Vasc Endovasc Surg.* 2012 Jul;44(1):11-7.
- 21: Cafueri G, Parodi F, Pistorio A, Bertolotto M, Ventura F, Gambini C, Bianco P, Dallegri F, Pistoia V, Pezzolo A, Palombo D. Endothelial and smooth muscle cells from abdominal aortic aneurysm have increased oxidative stress and telomere attrition. *PLoS One.* 2012;7(4):e35312.
- 22: Palmieri D, Aliakbarian B, Casazza AA, Ferrati N, Spinella G, Pane B, Cafueri G, Perego P, Palombo D. Effects of polyphenol extract from olive pomace on anoxia-induced endothelial dysfunction. *Microvasc Res.* 2012 May;83(3):281-9.
- 23: Aliakbarian B, Palmieri D, Casazza AA, Palombo D, Perego P. Antioxidant activity and biological evaluation of olive pomace extract. *Nat Prod Res.* 2012;26(24):2280-90.
- 24: Palombo D, Lucertini G, Robaldo A, Pane B, Spinella G. Treatment of penetrating aortic ulcer by endoprosthesis: a single center experience. *Int Angiol.* 2012 Feb;31(1):54-61.
- 25: Garibaldi S, Barisione C, Ghigliotti G, Spallarossa P, Barsotti A, Fabbi P, Corsiglia L, Palmieri D, Palombo D, Brunelli C. Soluble form of the endothelial adhesion molecule CD146 binds preferentially CD16+ monocytes. *Mol Biol Rep.* 2012 Jun;39(6):6745-52.
- 26: Palombo D, Morbelli S, Spinella G, Pane B, Marini C, Rousas N, Massollo M, Cittadini G, Camellino D, Sambuceti G. A positron emission tomography/computed tomography (PET/CT) evaluation of asymptomatic abdominal aortic aneurysms: another point of view. *Ann Vasc Surg.* 2012 May;26(4):491-9.
- 27: Montecucco F, Di Marzo V, da Silva RF, Vuilleumier N, Capettini L, Lenglet S, Pagano S, Piscitelli F, Quintao S, Bertolotto M, Pelli G, Galan K, Pilet L, Kuzmanovic K, Burger F, Pane B, Spinella G, Braunersreuther V, Gayet-Ageron A, Pende A, Viviani GL, Palombo D, Dallegri F, Roux-Lombard P, Santos RA, Stergiopoulos N, Steffens S, Mach F. The activation of the cannabinoid receptor type 2 reduces neutrophilic protease-mediated vulnerability in atherosclerotic plaques. *Eur Heart J.* 2012 Apr;33(7):846-56.
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7.2 Articles in print

1: Ferrari PF, Palmieri D, Casazza AA, Aliakbarian B, Perego P, Palombo D. TNF α -induced endothelial activation is counteracted by polyphenol extract from UV-stressed cyanobacterium *Arthrospira platensis*. *Med Chem Res*, 2014 in press

2: Mongelli F, Pane B, Spinella G, Palombo D. Iatrogenic intercostal artery aneurysm following fogarty balloon occlusion in open thoraco-abdominal aneurysm repair. *Annals of Vascular Surgery*, 2014 in press

8. Book Chapters

- ◆ R. Mazzei, D. Palombo, M. Ferri, D. Maggio, D. Valenti, A. Gaggiano, E. Ferrero, P. Carbonatto, S. Tettoni, C. Massa Saluzzo (2002). **Trattamento endovascolare del distretto popliteo crurale nel paziente diabetico in ischemia critica**. In: C. Pratesi, R. Pulli. *Arteriopatie obliteranti femoro poplitee*. Minerva Medica, Torino: 273- 279.
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- ◆ D. Palombo, S. Mambrini, R. Mazzei, D. Mugnai, N. Rousas, A. Robaldo (2006). **Epidemiologia, fattori eziopatogenetici e quadri clinici degli Aneurismi delle arterie viscerali**. In: C. Pratesi, R. Pulli. Arteriopatie Viscerali. Edizioni Minerva Medica, Torino: 175- 184.
- ◆ Rousas N., Mambrini S., Mazzei R., Lucertini G., Robaldo A., Principato M.C., Pane B., Spinella G., Pascale G., Ganceriuc O., Cafueri G., Palombo D. (2009). **Penetrating Aortic Ulcer (PAU): A Single Center Experience**. In: Cao P. Vascular Aneurysms. University of Thessaly Press, 151- 168.
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- ◆ D. Palombo, G. Cafueri, S. Mambrini, D. Palmieri (2012). **Considerazioni generali**. In: Carlo Setacci, “Chirurgia Vascolare” a cura della SICVE. Edizioni Minerva Medica, 1-40.

9. International Congresses (as speaker or moderator)

- ◆ 5th Lisbon International Forum on Vascular Diseases – 19 – 21 December, 2014 Lisbon – Portugal
- ◆ SiveC Siena Vascular and Endovascular Course – 8 – 10 September, 2014 Siena – Italy
- ◆ TERMIS Tissue Engineering and Regenerative Medicine International Society – 10 – 13 June, 2014 Genova – Italy
- ◆ LIVE 2014 Leading Innovative Vascular Education – 22 – 24 May, 2014 Athens – Greece
- ◆ International Congress on Natural Sciences and Engineering – 7 – 9 May, 2014 Kyoto – Japan
- ◆ 63rd International Congress of the European Society for Cardiovascular Surgery – 24 – 27 April, 2014 Nice – France
- ◆ 10th International Congress of Update in Cardiology and Cardiovascular Surgery – 13 – 16 March, 2014 Antalya – Turkey
- ◆ 4th Lisbon International Forum on Vascular Diseases – 13 – 14 December, 2013 Lisbon – Portugal
- ◆ UNESCO Chair in Bioethics, 9th World Conference on Bioethics, Medical Ethics & Health Law – 19 – 21 November, 2013 Naples – Italy
- ◆ SiveC Siena Vascular and Endovascular Course – 24 – 25 October, 2013 Siena – Italy
- ◆ UNESCO Chair in Bioethics certificate – 18 – 19 October , 2013 Aosta – Italy
- ◆ XXIII MLAVS Mediterranean Congress of Angiology and Vascular Surgery – 3 – 5 October, 2013 Volos & Larissa, Greece
- ◆ XXVIIIème Congrès Société de Chirurgie Vasculaire de Langue Francaise – 21 – 24 June, 2013 Nice – France
- ◆ 10th joint annual meeting of the Israeli society of vascular and endovascular surgery & the Israeli society of interventional radiology – 2 May, 2013 Ramat Gan – Israel
- ◆ 62nd International Congress of the European Society for Cardiovascular and Endovascular Surgery – 11-13 April, 2013 Regensburg – Germany

- ◆ 5th International Congress Aortic Surgery and Anesthesia “How to do it” – December 13-15, 2012 Milano - Italy
- ◆ XXII MLAVS Annual Congress of Mediterranean League of Angiology and Vascular Surgery and VIII Annual Congress of Fleboforum – October 11 – 13, 2012 Civitavecchia – Italy
- ◆ ESVS European Society for Vascular Surgery – 19 – 21 September, 2012 Bologna - Italy
- ◆ E.T.I. Endovascular Therapy International – September 5-8, 2012 Siena – Italy
- ◆ VIP Vascular International Padova Congress – June 28-30, 2012 Padua – Italy
- ◆ IAS – International AORTIC Summit – June 21-23, 2012 Venice - Italy
- ◆ Leading Innovative Vascular Education – May 24 – 27, 2012 Alexandropolis – Greece
- ◆ 61st European Society for Cardiovascular Surgery – April 25 – 28, 2012 Dubrovnik
- ◆ Sèance Plénière Académie Nationale de Médecine – 27 Mars 2012 - Paris
- ◆ 8th International Congress of Update in Cardiology and Cardiovascular Surgery – March 1- 4, 2012 Antalya - Turkey
- ◆ XXV Annual Meeting European Society of Vascular Surgery – 22 – 25 September 2011 – Athens – Greece
- ◆ Fellow of the European Board of Vascular Surgery – 22 September 2011 – Athens – Greece
- ◆ 60th International Congress of European Society for Cardiovascular and Endovascular Surgery – 20 – 22 May – Moscow
- ◆ Vascunet Group of European Society of Vascular Surgery – 11 – 13 May, 2011 – Pecs – Hungary
- ◆ European Accreditation Council for Continuing Medical Education - 5 – 8 May, 2011 – Chalkidiki - Greece
- ◆ 33rd Charing Cross International Symposium – Vascular and Endovascular Update – 9-12 April, 2011 - London
- ◆ Trends and Implications for European Healthcare on Vascular Treatment – Dublin - March 14, 2011 – Dublin
- ◆ The 2010 Symposium of Advanced Medical Technologies – Bucharest - November 11th – 12th 2010

- ◆ XXVème Congrès Société de Chirurgie Vasculaire de Langue Française – Nimes – Juin 13 2010
- ◆ X Congresso Anual Sociedade Portuguesa de Angiologia e Cirurgia Vascular – Porto 2 – 5 Junho de 2010
- ◆ 2010 LIVE (Leading Innovative Vascular Education) May 27-30 2010 Corfu
- ◆ Polskie Towarzystwo Chirurgii Naczyniowej – Ossa 22 – 24 Kwietnia 2010 59th ESCVS
- ◆ International Congress with 6th Congress of Update in Cardiology and Cardiovascular Surgery – April 15 – 18 Izmir (Turkey)
- ◆ Chirurgie Vasculaire 2009 – Paris – 26 – 28 Novembre 2009
- ◆ 16th International Workshop of Endovascular Surgery – “EVAR for ruptured aneurysm – Meta-analysis of literature” - Ajaccio June 21 – 24 2009
- ◆ LIVES – Larissa International Vascular Endovascular Symposium – “Penetrating Aortic Ulcer (PAU) a single Center experience”- Larissa 29th May – 31 May 2009.
- ◆ 58th ESCVS International Congress – “Is evar appropriate for octogenarian population? Our experience”; “District based abdominal aortic aneurysm screening in man aged 65 years and more”; “Isolated aneurysms of the iliac arteries preliminary result 2010 LIVE (Leading Innovative Vascular Education) May 27-30 2010 Corfu
- ◆ Académie Nationale de Médecine –“ Douleur Thoracique et ulcere penetrant de l’Aorte : Iceberg du syndrome aortique aigu” - Paris 7 Avril 2009
- ◆ 4th Congress of Update in Cardiology & Cardiovascular Surgery” – Is EVAR justified for octogenarian population? – EVAR Surveillance: Cost saving with validated duplex and dedicated X Ray protocol - Antalya 28 Novembre – 2 Dicembre 2008 -
- ◆ VII Symposium Internacional de angiologia e cirurgia vascular –“ Innovazione e tradizione in Chirurgia Vascolare: chirurgia dell’aorta addominale”- Porto 27 October 2006
- ◆ Special Conference Geneva University Hospital “ La chirurgie vasculaire hybride” – Ginevra, 23 Ottobre 2006
- ◆ The European Society for Cardiovascular Surgery - 52nd International Congress – November 7 – 10, 2003 Istanbul, Turkey
- ◆ European Society for Vascular Surgery – XVII Annual Meeting – 5 – 7 September 2003 - Dublin
- ◆ Union Européenne des Médecins Spécialistes – Division of Vascular Surgery & European Board of Vascular Surgery – Assessor for the 8th Annual EBSQ-VASC Assessments

- ◆ Assessor Council Meeting as Italian National Representative on the Board – 2 – 4 September 2003 – Dublin
- ◆ Société de Chirurgie Vasculaire de Langue Française - 18^e Congrès – 21 – 24 Mai 2003 – Toulouse
- ◆ 25th International Symposium Charing Cross – 14 – 15 April 2003
- ◆ Journées Scientifiques sur Actualités Vasculaires de la Pitié Salpêtrière & Chirurgie des Dissections Aortiques – 28 – 30 Novembre 2002 – Paris
- ◆ Primul Congres al Societății Române de Chirurgie Cardio Vasculară – 6 – 9 Noiembrie 2002 – București
- ◆ European Society for Vascular Surgery – XVI Annual Meeting – 26 – 29 September 2002
- ◆ Union Européenne des Médecins Spécialistes – Division of Vascular Surgery & European Board of Vascular Surgery – Assessor for the 8th Annual EBSQ-VASC Assessments
- ◆ Assessor Council Meeting as Italian National Representative on the Board – 25 – 27 September 2002 – Dublin
- ◆ II Congresso da Sociedade Portuguesa de Angiologia e Cirurgia Vascular – 28 – 29 Junho – Lisboa
- ◆ Société de Chirurgie Vasculaire de Langue Française – XVII^e Congrès – 29 – 31 Mai 2002 Liège
- ◆ The Paris Course on Revascularization – May 21 – 24 Paris
- ◆ 24th Charing Cross Symposium – “Evidence for Vascular or Endovascular Reconstructions” – 8 – 9 April – London
- ◆ European Vascular Course – 21 – 23 March 2002 – Amsterdam
- ◆ Journées Scientifiques sur Actualités Vasculaires de la Pitié – Salpêtrière & Chirurgie de l'Artère Vertébrale – 22 – 24 Novembre 2001 – Paris
- ◆ European Society for Vascular Surgery – XV Annual Meeting – 27 – 30 September 2001 – Lucerne – Switzerland
- ◆ Union Européenne des Médecins Spécialistes – Division of Vascular Surgery & European Board of Vascular Surgery - Assessor for the 8th Annual EBSQ-VASC Assessments - Assessor Council Meeting as Italian National Representative on the Board – 25 – 27 September 2001 - Lucerne – Switzerland
- ◆ 50th Congress of the European Society for Cardiovascular Surgery – June 20 – 23, 2001 Budapest

- ◆ Société de Chirurgie Vasculaire de Langue Française – 30 Mai – 2 Juin 2001 – Nice
- ◆ 23rd Charing Cross International Symposium – 8 – 10 April 2001 – London
- ◆ Course Avancé en “Chirurgie Laparoscopique Aorto – Iliaque – 1 – 3 Mars 2001 – Strasbourg
- ◆ Groupe Hospitalier Pitié – Salpêtrière – Journées Scientifiques sur le Polyvasculaire Atheromateux – 23 – 25 Novembre 2000
- ◆ European Society for Vascular Surgery – XIVth Meeting – 22 – 25 September 2000 –
- ◆ Société de Chirurgie Vasculaire de Langue Française – 31 Mai – 3 Juin 2000 – Marseille
- ◆ 22nd Charing Cross International Symposium – Vascular and Endovascular Opportunities – 6 – 7 April 2000
- ◆ XXXIV Congrès du Collège Français de Pathologie Vasculaire – 15 Mars 2000 – Paris
- ◆ Journées Scientifiques sur Chirurgie des Artères Digestives – Groupe Hospitalier Pitié – Salpêtrière – 25 – 27 Novembre 1999
- ◆ European Society for Vascular Surgery – XIII Annual Meeting – 4 – 5 September 1999 – Copenhagen
- ◆ Union Européenne des Médecins Spécialistes – Division of Vascular Surgery & European Board of Vascular Surgery - Assessor for the 4th Annual EBSQ-VASC Assessments - 31 August – 1st September 1999 – Copenhagen
- ◆ Société de Chirurgie Vasculaire de Langue Française – 16 – 19 Juin 1999 – Montpellier
- ◆ 21st Charing Cross International Symposium – The Durability of Vascular and Endovascular Surgery – 8 – 9 April 1999 – London
- ◆ XXXIIIème Congrès du Collège Français de Pathologie Vasculaire – 10 – 12 Mars 1999 – Paris
- ◆ Angio – Techniques – « La Chirurgie Laparoscopique aorto – iliaque » - 29 Janvier 1999 – Marseille
- ◆ 5ème Symposium International de Chirurgie Endovasculaire – 27 – 28 Juin, 1998 – Ajaccio
- ◆ Collège Français de Chirurgie Vasculaire – 24 – 25 Avril, 1998 – Grenoble
- ◆ IIIrd East-West European Congress of Angiology – 3 – 5 December 1997 – Warsaw

- ◆ 23rd World Congress of International Society for Cardiovascular Surgery – September 21 – 26, 1997 – London
- ◆ 4ème Symposium International de Chirurgie Endovasculaire – 27-29 Juin, 1997 – Ajaccio
- ◆ Congrès de la Société de Chirurgie Vasculaire de Langue Française – 11 – 14 Juin, 1997 – Nice